

Thanks to B & C COMPUTERVERSIONS, we are including our 4 pages of up to date information concerning things going on at HAPPY COMPUTERS. Since we have over ten thousand people in our mailing list, it would be too expensive for HAPPY COMPUTERS alone to send out such a big mailing. These information pages are dated 10/16/86.

INFORMATION MACHINE IS NOW WORKING  
CALL (408) 778-6092

Our information machine is now operating 24 hours a day. You must use a touch tone phone. Call the number and you will get a voice menu of the 9 available messages. Use your touch tone phone to select the one message of interest. Press the number and hold it down for 1 second. There may be a few seconds delay before the selected message begins. The messages will be updated from time to time.

MORE DISKS THAT BACKUP WITH REV 7

Some programs that came out after revision 7 was released can still be backed up, even though they are not listed in the display info screen of the particular PDB file.

Using PDB file number 19, you can backup: HARDBALL and FIGHT NIGHT, by Accolade; MUSIC STUDIO, by ACTIVISION, PRINTSHOP GRAHPICS DISK 3, by Broderbund; and SOLO FLIGHT, by Microprose. Using PDB file # 25, you can backup WORLD KARATE CHAMPIONSHIP by EPYX. Using PDB file # 6, you can backup ADVANCED PROTECTION TECHNIQUES by Alpha Systems.

We have found that some older versions of MAGNIPRINT by Alpha Systems can be backed up by the same PDE file as Scanalyzer, that is number 20. However, we have seen a newer version of SCANALYZER that will require a new PDB file, which will be available in our next software version.

NEW VERSION ALMOST READY

We have recently received some newer disks by Synapse, SSI, First star, Datasoft, and Atari, that will require new PDB files. These will also be part of our next software version. The next software version is almost completed. It will incorporate new backup capability, as well as some other new features. It cannot be ordered yet. When it is complete and ready for shipment, we will announce the new features, the programs the new version can backup, and ordering information on our information machine.

Many programs that are not listed in PDB files can still be copied using the rev 7. Make sure you try copying with SKEW ALIGNMENT and FORCED SLOW MODE selected as yes, with the normal mode of the HAPPY BACKUP PROGRAM. For example, SEVEN CITIES OF GOLD from Electronic Arts is listed in a PDB file. However, only the newer version requires the PDB file. The older version of SEVEN CITIES OF GOLD must be copied with SKEW ALIGNMENT. Another example is SYNFILE. Most SYNFILE disks must be copied using the PDB file. However, we have heard that there is a newer version of SYNFILE that can be copied using the SECTOR COPIER!

UPDATE SUBSCRIPTION - BE THE FIRST TO GET THE LATEST REVISION

For those of you that don't want to hassel with calling our information machine to get the latest scoop, we now offer an update subscription. This subscription costs \$15.00, and you must have a registered HAPPY to subscribe. If you have an 810 ENHANCEMENT, you must already have version 7 compatability before you can subscribe. The subscription is a one year subscription, and includes all software updates that we have within that one year. At least 2 software updates are promised for your subscription fee. You will also receive quarterly information mailings to keep you up to date about special offers, and other things going on at HAPPY COMPUTERS.

The subscription is only available to mailing addresses in the United States and Canada. Your subscription period will not begin until we mail out the first software update. When we have a software update, we will mail these to subscribers first.

## CHEERUP YOUR 1050 DUPLICATOR

### THE CHEERUP UPGRADE MODULE FOR THE 1050 DUPLICATOR

It is hard to remain silent when you see a competitor taking advantage of your potential customers. HAPPY COMPUTERS has watched and listened to the promises of Duplicating Technologies, complaints of persons that bought their product, the reviews of their product that dismiss it as not being a viable solution, and the erroneous statements made by D.T. in reference to our products.

Now that our revision 7.00 software has been out for some time, I feel there is one point that needs to be cleared up concerning a more recent ad from Duplicator. It is true that some disks backed-up by the HAPPY must have the backup run on the HAPPY drive, however most disks do not, that is the backup will run without the HAPPY. Most of the disks that have a requirement that the backup be run on a HAPPY drive, the Duplicator cannot back up at all!

We have a review / comparison of the 1050 Duplicator, that was written by an independent person. To get a copy of this review, send us a self addressed stamped envelope. There have been other reviews already published in the CURRENT NOTES newsletter. This includes the June 1986 issue, a response from Duplicator in the next issue, and a further review of the HAPPY's version 7 software in the October 1986 issue. We cannot supply copies of these. Contact the editor, Joe Waters, 122 N. Johnson Rd., Sterling VA 22170, (703) 450-4761, to obtain back issues and new issues of that newsletter.

Many people that have purchased a Duplicator for their 1050, have called us asking for some way to correct their mistake without junking their Duplicator. HAPPY COMPUTERS has developed the CHEERUP module that allows modifying an existing, (working ?) 1050 Duplicator board to be functionally equivalent to a HAPPY 1050 ENHANCEMENT.

First of all, the Duplicator to be modified must function. That is, the drive equipped with that board should be able to read, write, and backup disks as well as could be expected of the Duplicator.

Although the hardware available on the Duplicator board is similar to the 1050 ENHANCEMENT, a plug in solution is not possible. This means that some very slight changes are needed.

To install our CHEERUP module's hardware, it is necessary to unplug one IC on the Duplicator board, plug in our module, cut one circuit trace on the Duplicator board, and make 5 solder connections.

After installing this module, your board will then be recognized as a HAPPY 1050 ENHANCEMENT by all software available that currently supports our product. We do not recommend that the 1050 CONTROLLER be installed with a Duplicator so modified, but this is possible, requiring many more solder connections and a few additional components ...sorry. Your board will no longer be able to run the Duplicator software ...no great loss!

The CHEERUP upgrade may be ordered directly from HAPPY COMPUTERS, using the toll free number listed in our current magazine ad, for COD (cash) or MASTERCARD / VISA credit card purchasers. The part number to order is DCU1. The price is \$49.95 with shipping included, if ordered by telephone. You can save a substantial amount of money by ordering pre-paid; see that section in this flyer. For fastest service, call our office directly. The persons at the toll free line cannot answer any questions, as they do not work in our office. See our current ad for further information. You may also order through the mail pre-paid, credit card, or COD. Only pre-paid orders get a discount.

The CHEERUP upgrade comes with the hardware module, which must be installed onto the Duplicator board (see above), installation instructions for installing the module, the current version of our WARP SPEED SOFTWARE rev 7.00 or higher, which includes all the programs and features normally included with our 1050 ENHANCEMENT, and our software user manual. You will be treated as one of our HAPPY 1050 ENHANCEMENT owners, so far as technical help and upgrades are concerned.

If you do not want to solder, we can install our module onto your Duplicator board. If you prefer this, you must send us your Duplicator board with \$75.00 prepaid. This includes the complete CHEERUP upgrade, installation, and return shipping in the continental United States.

If you do not want to take your disk drive apart, we can install our module onto your Duplicator board inside your disk drive. If you prefer this, you must send us your functional disk drive with the Duplicator installed, with \$100.00 prepaid. This includes the same upgrade as above, installation, and return shipping in the continental United States. Disk drives are best not shipped outside the continental United States, due to large postage fees. Only send your disk drive, do not send your power pack or I/O cable, as these add to the shipping weight.

### 810 DRIVE WITH REV 7 HAPPY COMPLETE

The B & C Happy 810 drive is available again. This disk drive is a complete 810 disk drive, built using the newest revision Atari 810 disk drive electronics with the analog upgrade already installed. It comes complete with a rev 7 HAPPY 810 ENHANCEMENT installed. It has a custom black metal and plastic case which is a little smaller than Atari's 810 case. A power pack and I/O cable are included, as well as the rev 7 software and instructions. See the section below for price.

This drive package will work with the HAPPY 1050, using the HAPPY backup program, and other programs on the WARP SPEED SOFTWARE disk. It will operate at high speed with WARP SPEED DOS XL, and TOP DOS 1.5. It will only operate in single density. The part number for this complete unit is HM1. The price is much less than you can usually get a 1050 disk drive and HAPPY for.

### SUPER DISCOUNTS on PRE-PAID ORDERS ONLY OFFERS EXPIRE 12/31/86, NO DISCOUNT ON COD OR CREDIT CARD

You can save money by NOT using the telephone to place your order. If instead you order pre-paid through the mail, using a money order or check, you pay less since it costs us much less to process your order, and we pass these savings on to you. Please note that personal and business checks may require 3 weeks to clear before we will ship your order. Money orders and cashier's checks do not have to clear. Please add sales tax for all orders shipped to an address in California. All of these prices apply only to orders that are not sent in yet. These special prices are only valid for orders to be shipped to an address in the United States. We reserve the right to refuse any order.

The B & C 810 HAPPY drive special pre-paid price is \$220.00. This includes shipping by UPS surface within the United States. You may order this item over the telephone with a credit card or COD, and we will add a shipping and handling charge on the telephone order.

The special pre-paid price on the 1050 CONTROLLER product, or the 810 rev 7 upgrade, or the CHEERUP upgrade for the Duplicator is \$30.00 if ordered alone, or \$25.00 if ordered with any other item. WARP SPEED DOS XL is just \$20.00 prepaid. However, if ordered with any other item, you can get this for just \$15.00. Order TOP DOS 1.5 pre-paid for just \$30.00, or if ordered with something else, pay just \$25.00.

Put it all together and you can get the 1050 CONTROLLER, TOP DOS, and DOS XL for just \$65.00 pre-paid. That's like getting the CONTROLLER for free, when compared to our advertised retail prices. Add a 1050 ENHANCEMENT to this special package, and you get one each of everything we sell for the 1050 at a fantastic special price of just \$195.00 pre-paid.

The 810 ENHANCEMENT is available at a super pre-paid special price of just \$100.00 each. This unit is the official plug in 810 HAPPY, and it comes complete with a version 7 upgrade already installed.

### THE TOLL FREE ORDER LINE

Our toll free order line listed in our current ad does not connect you with our office. They take orders, type them in their computer, and send us a printout through the mail; just like if you were ordering steak knives from a television commercial. Ordering by the toll free number can add several days to the time it takes to process and ship your order.

The people at the toll free number cannot answer any questions accurately. They can only read the information we have provided them on a script. They cannot tell you price, shipment schedule, or do anything except take your ordering information. If you know exactly what you want to order, do not have any questions, and can wait a few extra days, you can save the price of a phone call by using the toll free ordering line. Refer to our latest ad for information on the toll free order line.

### FOR FASTEST RUSH DELIVERY AND TECHNICAL HELP

For the fastest service, call our office number during our normal business hours to place your order. We will help you decide on the fastest method of shipment, and the additional costs, if any, involved. At HAPPY COMPUTERS, you can talk directly to the chief designer of our products, Richard Adams. Our office hours are 9am to 5pm Monday through Friday, Pacific time.

## 810 VERSION 7 UPGRADE NOW IN STOCK

The rev 7 upgrade for the 810 is needed by most older 810 HAPPIES to allow running our newer rev 7 and later software. All HAPPY boards with a serial number less than 8000, and all pirate HAPPY 810 units need this upgrade. This is the only upgrade we have ever required. No upgrade is required for the 1050 ENHANCEMENT, and newer 810 ENHANCEMENTS don't need an upgrade.

We are offering this upgrade to those with pirate HAPPY 810 units, since by purchasing this upgrade, the user is paying for a legal copy of the copyrighted portion of our manuals, software, and firmware.

The upgrade hardware consists of one custom made chip that is installed into the inside of the drive, replacing another chip. All real HAPPY boards and most pirate HAPPY boards will be able to do this without soldering. We need to know the serial number of the HAPPY board, or the part number of the old EPROM, to provide you with the correct type of chip. If your 810 HAPPY is registered with us, we will already know its serial number. Otherwise, you will need to disassemble the drive to determine this information. It is usually necessary to temporarily unplug and remove the 810 side board to get the information needed. A real HAPPY board should have a serial number which is a paper sticker on the board which has a letter B as in boy, followed by a 4 digit number.

A pirate HAPPY board will usually have an EPROM in socket A102 which will either be a 2732 or a 2532. Socket A102 is on the Atari side board, usually underneath the data separator board which must be unplugged to see the 2532 or 2732 EPROM. It may be necessary to peel a label or paper cover off the EPROM to see the part number.

The features added by installing this upgrade chip include the following: You will be able to use our rev 7 software, or later. This backs up many new programs, and the backup programs operate much faster than previous versions with the 810. Also, you can use the rev 7 810 together with a 1050 HAPPY drive for dual or multi drive backup. The grinding noise made by the 810 when using disks backed up in the forced slow mode has been eliminated. The upgrade provides compatibility with the 1050 HAPPY. This allows high speed use with the same DOS programs used with the 1050 HAPPY. The upgrade makes it possible to add a SLOW / FAST switch that operates like our 1050 CONTROLLER product.

The upgrade kit includes the hardware chip, installation instructions, a rev 7 software disk, and rev 7 user manual. When ordering, you must include the type as previously explained. Although the suggested retail is \$49.95, you can save a substantial amount of money by ordering pre-paid; see that section in this flyer. Call our office if you need help in determining the correct type of upgrade.

## 1050 REV 2 ROM

If you have a 1050 ENHANCEMENT that has a rev 1 ROM (see rev 7 software manual to determine this), we now have the rev 2 ROM in stock, which may be purchased as an upgrade, only if you have a rev 1 ROM. The pre-paid U.S. price including shipping is currently \$20.00 each. This is not a required upgrade. If you need further information on what the differences between rev 1 and rev 2 are, call or write our office. The price is \$30.00 by COD or credit card.

## SERVICE AND INSTALLATION

We can offer installation and service of any product we sell. We can also offer service on complete disk drives that have our products installed. Contact our office for further information.

## TECHNICAL MANUAL

The technical manual is not available yet, a price has not been set, and we are not yet accepting orders for it. Its completion and availability will be announced on the information machine. If you have already sent us a self addressed stamped envelope for information on the technical manual, we will send you this information when the manual is ready for shipment.

The proposed technical manual contents includes the following subjects: The HAPPY 810 and 1050 drive have some built in commands that do not require programming the drive. These include the hexadecimal 48 and 51, or "H" and "Q" commands. The technical manual will describe the use of these. Also, some of the built in memory locations for reading and writing in the drive will be explored. Presently, in the WARP SPEED SOFTWARE rev 7, only the SECTOR COPIER works with a RAMDISK. It only recognizes 64K as a 130 XE, and 128K as an AXLON style RAMDISK. The technical manual explains how to modify our software, so the SECTOR COPIER can use a larger or different style RAMDISK. You will have to know how to program in machine language to use this information. The technical manual includes a schematic for a circuit which is a write protect defeat for the 810, that does not interfere with the HAPPY 810's need to sense the write protect circuit. For HAPPY 1050 owners, the technical manual discusses how to use the double density commands of the HAPPY 1050 drive. Also, the differences between the different revisions of the HAPPY 1050 board are discussed. For 810 HAPPY owners, there are some upgrades and changes to the drive design which don't directly affect our product. These are discussed in the technical manual, as well as some of the common known failure modes of the 810 disk drive. The technical manual includes an expanded section on curing hi-speed transfer problems, especially in systems that have a lot of drives or other peripherals. And finally, the technical manual includes a section on disk drive repair and adjustment, plus hints on solving other more subtle problems. There may be other areas covered; these will be announced when the technical manual is finally released.